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5 A microcell base station for a multilayer radio
communication cellular network, comprising a wire
interface (5) for connection to a wire access network (6)
and an air interface (8) for communicating by radio with
mobile station in accordance with a time division multiple
access operating mode, with signal frames each divided
into a number N of successive timeslots, wherein telephone
communications involving a mobile station located within
10 radio range of the equipment can be established through
the wire network by means of the wire interface and the
air interface, and wherein the air interface is arranged
to transmit a radio signal in each timeslot of the frames
on a beacon frequency, wherein the radio signal
15 transmitted on the beacon frequency comprises a beacon
signal carrying signalling information, in at least one
timeslot as long as at most N-1 of the timeslots of the
frame on the beacon frequency are occupied by
communications with mobile stations, and wherein the air
20 interface stops transmitting the beacon signal when the N
timeslots on the beacon frequency are occupied by
communications with mobile stations.

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